

ABSTRACT OF THE DISCLOSURE

Provided is a fuel cell system capable of preventing a drop of power
stemming from the water residence at an electrode portion or the shortage of water
5 content in an electrolyte membrane. The system is equipped with an air pressure
regulating valve for adjusting the pressure of air to be supplied to a fuel cell stack
and a hydrogen pressure regulating valve for adjusting the pressure of hydrogen. In
this system, the pressure difference between the air pressure and the hydrogen
pressure is controlled through the regulating valves so that a minimum hydrogen
10 pressure becomes higher than a maximum air pressure, or so that a minimum air
pressure becomes higher than a maximum hydrogen pressure.